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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/062,651	10/062,651 01/31/		2002 Naoaki Komiya	YKI-0082	2162
23413	7590	02/07/2005		EXAMINER	
CANTOR		-	NGUYEN, KEVIN M		
55 GRIFFIN BLOOMFIE				ART UNIT	PAPER NUMBER
220011112	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,		2674	
				DATE MAILED: 02/07/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
,	10/062,651	KOMIYA, NAOAKI				
Office Action Summary	Examiner	Art Unit				
	Kevin M. Nguyen	2674				
The MAILING DATE of this communication a		with the correspondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).		a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status	·					
1) Responsive to communication(s) filed on 14	·					
2a) This action is FINAL . 2b) This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under	Ex parte Quayle, 1935 C	.D. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-3 and 6-8</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-3 and 6-8</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreig	un priority under 35 U.S.C.	8 119(a)-(d) or (f)				
a)⊠ All b)□ Some * c)□ None of:	m pmomy amour or energ					
1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list	st of the certified copies no	ot received.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		v Summary (PTO-413) o(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/06	8) 5) 🔲 Notice o	f Informal Patent Application (PTO-152)				
Paper No(s)/Mail Date 6) Other:						
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office	Action Summary	Part of Paper No./Mail Date 20050201				

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DETAILED ACTION

Request for Continued Examination

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on December 14, 2004 has been entered. An action on the RCE follows:
- 2. Claims 4 and 5 are cancelled, claims 1-3 and 6-8 are amended, and claims 1-3 and 6-8 are currently pending in the application. An action follows below:

Double Patenting

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

4. Claims 1-3 and 6-8 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-3 of U.S. Patent No. 6,556,176. Although the conflicting claims are not identical, they are not

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patentably distinct from each other because it would have been obvious to provide each of the electrical current of a different amount flowing to each of the OLED in accordance with the varied size of the corresponding driving transistor connected thereto over claims of the Friend's reference.

- 5. Claims 1-3 and 6-8 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-3 of Okuyama et al (U.S. Patent No. 6,556,176) in view of Friend et al (US Patent No. 6,429,601).
- 6. As to claim 1, Okuyama et al teaches, recited in col. 6, lines 1-7 of claim 1, "outputting a different amount of electrical current, wherein a current signal corresponding to a total current amount from said n transistors is output a corresponding data lines and is supplied to said emissive element via said thin film transistor," recited in col. 6, lines 8-9 of claim 2 "each of said n transistors is of a different size," recited in col. 6, lines 10-11 of claim 3 "said emissive element is an organic electroluminescence element."

Okuyama et al teaches all of the claimed limitation of claim 1, except for a structure of one pixel comprising: a plurality of driving transistors, a plurality of scan thin film transistors, a plurality of data lines, a plurality of organic electroluminescent elements, and grayscales.

However, Friend et al teaches at least one pixel comprising a plurality of different size of driving transistors 15a-15d, a plurality of scan thin film transistors 13a-13d, a plurality of data lines 11a-11d, a plurality of organic electroluminescent elements 19a-19d, and 2ⁿ grayscale, values for pixel (see fig. 5, col. 7, lines 58-65).

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify each Okuyama's pixel including a plurality of different size of driving transistors 15a-15d, a plurality of scan thin film transistors 13a-13d, a plurality of data lines 11a-11d, a plurality of organic electroluminescent elements 19a-19d, and 2n grayscale values for pixel, in view of the Friend's reference because this would provide each cycle the high power mode more than one discrete high power pulse as taught by Friend et al (col. 2, lines 66-67).

- 7. As to claim 2, Friend et al teaches the transistors size of each of driving transistors correspond to the light-emitting areas are set so that the sizes are sequentially doubled (figure 3, column 7, lines 65-67).
- 8. As to claim 3, Friend et al teaches the size of the transistor is determined by the gate length and/or gate witch of the transistor (15a) associated with the light-emitting area (19a) (figure 3, column 7, lines 58-67).
- 9. As to claim 6, Friend et al teaches the driving period of the driving transistor of each pixel is divided into a plurality of sub-fields; and the duration of ON condition of each EL element is controlled by controlling the on/off condition in each sub-field (figures 7 and 8, column 8, lines 3-20).
- 10. As to claim 7, Friend et al teach the lengths of a plurality of sub-fields are set so that they are sequentially doubled (figure 8, column 8, lines 3-20).
- 11. As to claim 8, Friend et al teaches the light emitting areas could be defined as parallel strips running across the pixel, as in Fig. 3, or in other ways (col. 8, lines 1-2).

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Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin M. Nguyen whose telephone number is 703-305-6209. The examiner can normally be reached on MON-THU from 8:00-6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick N. Edouard can be reached on 703-308-6725. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the Patent Application Information Retrieval system, see http://portal.uspto.gov/external/portal/pair. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin M. Nguyen Patent Examiner Art Unit 2674

KMN February 1st, 2005

> XIAO WU PRIMARY EXAMINER